

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An antenna device comprising:
a conducting base;
an elongate conducting element electromagnetically coupled to and extending from the conducting base; and
a parasitic conductor electrically connected to and extending from the conducting base,
wherein the conducting element and the parasitic conductor extend from the conducting base at a single corner region of the conducting base; and
an insulating substrate, wherein the conducting element and the parasitic conductor are provided on opposite surfaces of the insulating substrate, wherein the conducting element, the parasitic conductor and the conducting base are mutually configured to provide conducting surfaces in which RF electrical currents can flow in a plurality of frequency bands to provide substantially omnidirectional radiation patterns in two mutually orthogonal planes.
2. (original) An antenna device as claimed in claim 1 wherein the conducting element, the parasitic conductor and the conducting base are mutually configured to provide radiation patterns having a radiation polarization component substantially the same.
3. (cancelled)
4. (original) An antenna device as claimed in claim 3 wherein the substrate comprises a substantially planar insulating board and the conducting element and the parasitic conductor are deposited on the surfaces of the board as shaped metallic strips.
5. (original) An antenna device as claimed in claim 1 wherein the conducting element and the parasitic conductor have lengths which in operation provide the conducting element with an electrical length about twice that of the parasitic conductor.

6. (original) An antenna device as claimed in claim 5 wherein the conducting element comprises an elongate strip having a first portion extending along a first axis and the parasitic element comprises a shaped strip extending along the first axis toward the conducting base.

7. (original) An antenna device as claimed in claim 6 wherein the conducting element also has a second portion extending along a second axis to provide an angled bend between the first and second portions.

8. (original) An antenna device as claimed in claim 7 wherein the angled bend of the conducting element is substantially right angled.

9. (original) An antenna device as claimed in claim 1 wherein the conducting element comprises a microstrip having a plurality of portions having different widths.

10. (original) An antenna device as claimed in claim 8 wherein the conducting element comprises a microstrip having a plurality of portions having different widths.

11. (original) An antenna device as claimed in claim 10 wherein the conducting element has a portion of greatest width at a free end of the conducting element distant from the base.

12. (original) An antenna device as claimed in claim 4 wherein the parasitic conductor comprises a strip having a shape including on a first side an edge having a curved recess and on a second side an edge sloping toward the first side.

13. (original) An antenna device as claimed in claim 1 wherein the base comprises a conducting block and the conducting element and the parasitic conductor extend from the block.

14. (cancelled)

15. (original) An antenna device as claimed in claim 13 wherein the conducting block has a main face substantially parallel with the conducting element and the parasitic element.
16. (original) An antenna device as claimed in claim 1 wherein the conducting element and the parasitic element are mutually configured to provide in operation a current flow in the parasitic element in opposition to a current flow in the conducting element.
17. (original) An antenna device as claimed in claim 15 wherein the conducting element and the parasitic element are mutually configured to provide in operation a current flow in the parasitic element in opposition to a current flow in the conducting element.
18. (original) An antenna device as claimed in claim 13 wherein:
the device includes a substantially planar insulating board and the conducting element and the parasitic conductor are deposited on opposite surfaces of the board as shaped metallic microstrips;
the conducting element comprises an elongate microstrip having a first portion extending away from the block along a first axis, a second portion extending along a second axis perpendicular to the first axis and a right angled bend between the first and second portions;
and
the parasitic element comprises a shaped strip extending away from the block along the first axis and has a shape including on a first side an edge having a curved recess and on a second side an edge sloping toward the first side.
19. (original) An antenna device as claimed in claim 18 wherein the parasitic conductor includes a tab which extends adjacent to a surface of the block.
20. (original) An antenna device as claimed in claim 19 wherein the tab is secured to the block to provide electrical contact with the block.

21. (original) An antenna device as claimed in claim 1 wherein the conducting base has a major surface and the antenna device further comprises at least one further conducting element electrically connected to the base and having a surface substantially orthogonal to the major surface of the base.

22. (original) An antenna device as claimed in claim 21 wherein the at least one further conducting element comprises a platelet having a shape which approximates to a D shape having a longest dimension in a plane substantially parallel with the major surface of the base.

23. (currently amended) A communications handset including an antenna device, the antenna device including a conducting base, an elongate conducting element electromagnetically coupled to and extending from the conducting base, ~~and~~ a parasitic conductor electrically connected to and extending from the conducting base, wherein the conducting element and the parasitic conductor extend from the conducting base at a single corner region of the conducting base; and
an insulating substrate, wherein the conducting element and the parasitic conductor are provided on opposite surfaces of the insulating substrate wherein the conducting element, the parasitic conductor and the conducting base are mutually configured to provide conducting surfaces in which electrical currents can flow at radio frequency (RF) in a plurality of frequency bands to provide omnidirectional radiation patterns in two mutually orthogonal planes for same polarization signal.

24. (original) A handset as claimed in claim 23 wherein the handset is operable in a GPRS communication system.